Technical Manual

IBL M712 TWO CHANNEL GATING COMPRESSOR/LIMITER



SPECIFICATIONS

ELECTRICAL SPECIFICATIONS:

- Frequency Response:
- THD + Noise:
- Noise:
- Maximum Input Level:
- Maximum Output Level:
- Input Impedance: Balanced: Unbalanced:
- Side-Chain Input: • Output Impedance:
 - Balanced: Unbalanced: Side-Chain Input:
- Noise Gate Control Ranges: Threshold:
 - Attenuation: Attack Time:

- 10 Hz (-0.5 dB) to 50 kHz (-3 dB)
- Less than 0.03%
- Better than -94 dB unweighted
- +24 dBu (XLR balanced)
- +27 dBu; +25 dBm (XLR balanced)
- 20 kOhms differential
- 10 kOhms
- 10 kOhms
- 51 Ohms 102 kOhms
- 10 kOhms
- 470 microseconds
- -60 dBu (Open) to +10 dBu

- Noise Gate Control Ranges: (Cont'd)
 - Hold Time: 200 microseconds Release Time: 95 msec
- Compressor Control Ranges:
 - Threshold: -40 dBu to +20 dBu Ratio: 1:1 to ∞:1 (165:1) Attack Time: 1 msec to 100 msec
 - Release Time: 100 msec to 1.5 seconds Output Gain: -20 dB to +20 dB 0 dBu = .775V; 0 dBm = 1mW

PHYSICAL SPECIFICATIONS:

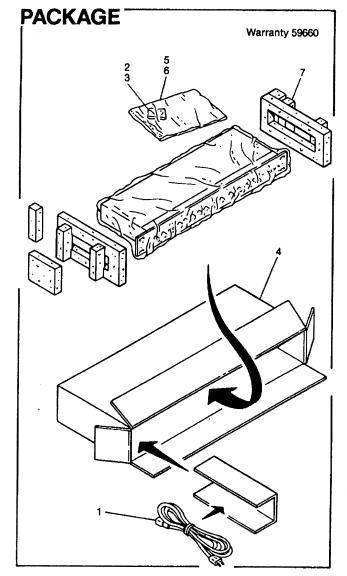
- Enclosure Dimensions: **SEE BELOW**
- Shipping Weight: 6 lbs. (2.7 kg.)

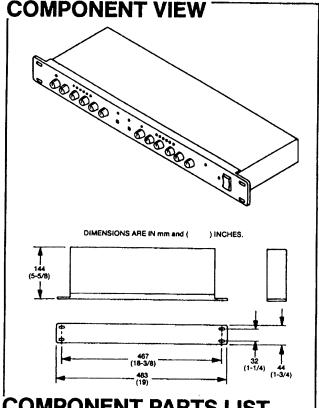
WARRANTY INFORMATION:

· Refer to the Warranty Statement packed with each product.

ACCESSORY:

Model SC8 Security Cover





COMPONENT PARTS LIST

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ITEM	PART NO.	QTY	DESCRIPTION			
1	36-0061	1	US/JA USA POWER CORD BME TYPE			
2	28-0095	4	JBL RACK SCREW			
3	28-0096	4	JBL RACK WASHER			
4	20-0080	1	M SERIES PRODUCT BOX			
5	22-0020	1	LITERATURE BAG (CLEAR PLASTIC)			
6	18-0414	1	M712 OWNER'S MANUAL			

Please add the letters JBL behind part numbers when ordering.

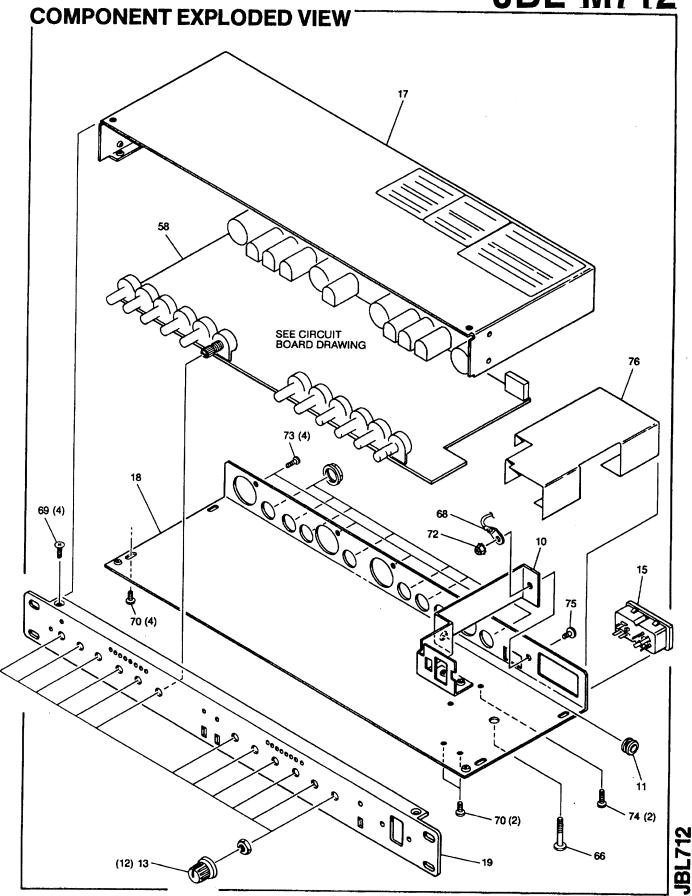
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COMPONENT PARTS LIST

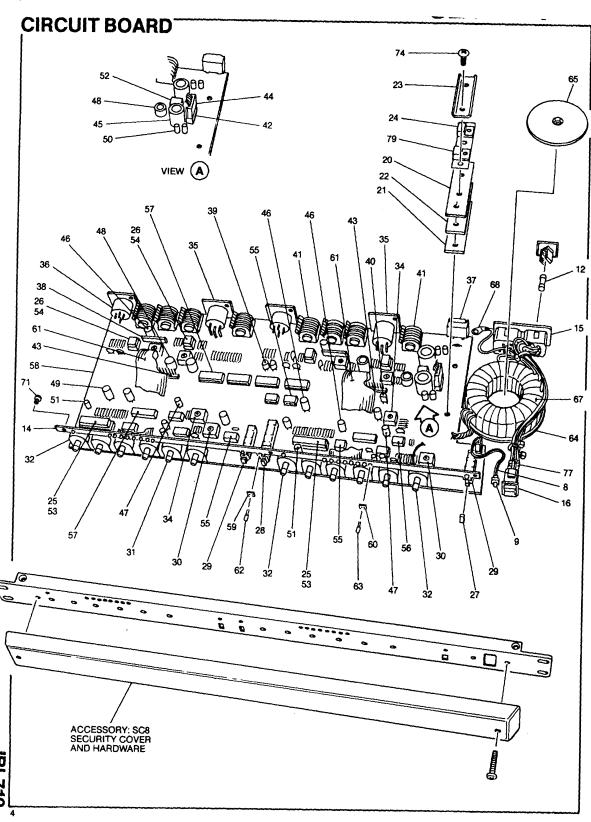
ITEM	PART NO.	QTY	DESCRIPTION			
7	l —	2	INSERT, FOAM			
8	32-1090	1	M SERIES POWER LED HARNESS			
9	70-2061	1	LED SMALL RED DIFFUSED T1			
10	24-0209	1	JBL 0EM POWER SUPPLY SHIELD			
11	24-0043	1	RUBBER GROMMET			
12	32-0002	2	FUSE 200MA 5x20MM (200-250V)			
13	34-0080	12	M SERIES KNOB REAN (LW)			
14	80-4007-B	1	AL660/M712 FRONT PCB RAW			
15	32-0056	1	AC RECEPTACLE MULTI VOLTAGE (CERT)			
16	44-0010	1	M SERIES POWER SWITCH			
17	14-1000-B	1	A/L GENERIC TOP REV B			
18	10-1355	1	M712 CHASSIS PAINTED			
19	10-1354	1	M712 FRONT PAINTED			
20	70-4209	1	INSULATOR FOR HS-2 HEATSINK - REV A			
21	70-4200-A	1	HEATSINK SPACER ALUM			
22	70-4204	1	HS-1 3REG HEATSINK TOP - REV A			
23	70-4203	1	HS-2 3REG HEATSINK BASE - REV A			
24	70-4123	1	7815 +15V REGULATOR TO-220 1500MA			
25	72-4250	2	SSM2120 PRECISION LINEAR			
26	72-4023	4	5532 DUAL LOW NOISE OP AMP			
27	34-0050	3	M SERIES MINI SWITCH CAP			
28	44-0022	1	MINI IN/OUT 6PDT SWITCH (18 PIN)			
29	44-0026	2	MINI IN/OUT 4PDT SWITCH (12 PIN)			
30	42-0222	2	TRIM POT 50K OHM HORIZONTAL 10MM V			
31	40-2012	2	RACK 100K POT SMOOTH W-TAPER			
32	40-2021	10	RACK 10K POT B TAPER			
33	42-0211	4	TRIM POT 10K OHM HORNIZONTAL 10MM			
34	42-0219	2	TRIM POT 5K OHM HORIZONTAL 10MM V			
35	32-0198	2	XLR MALE PCB MOUNT REAN			
36	32-0199	2	XLR FEMALE PCB MOUNT REAN			
37	32-0300	1	2 POS PCB BARRIER STRIP A/L			
38	72-4051	2	2150A DBX VCA			
39	70-1008	2	2N4125 PNP TRANSISTOR			
40	70-1009	1	2N4124 NPN TRANSISTOR			
41	32-0091	8	BIG JACK PCB 1/4 M203-92			
42	32-1069	1	5 PIN HEADER STRAIGHT PIN			
43	32-1067	2	14 PIN HEADER STRAIGHT PIN			
44	32-1071	1	5 PIN LOCKING HEADER			
45	60-0063	2	1000 UF 35V 13x28 BODY			
46	60-0051-01	6	10 NP 16V DOG LEG 6x11 BODY			
47	60-0048-01	2	4.7 UF 16V DOG LEG 5x7 BODY			
48	60-0055	4	100 UF 25V 8x11 BODY			

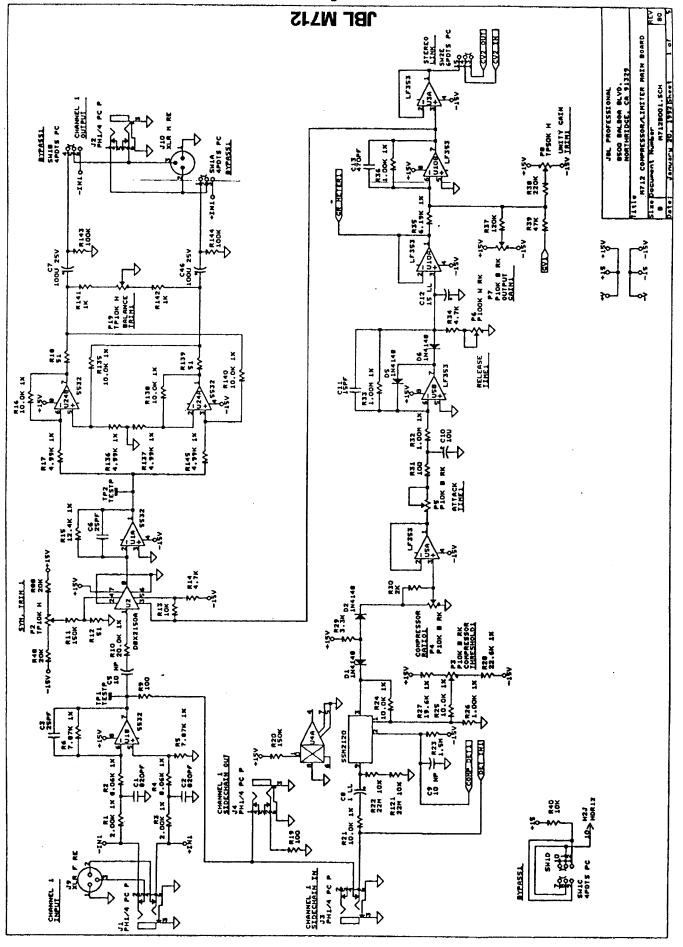
ITEM	PART NO.	ОТУ	DESCRIPTION		
49	60-0065-01	2	47 LL 16V DOG LEG 6x11 BODY		
50	60-0050-01	4	10 UF 25V DOG LEG 5X11 BODY		
51	60-0045-01	4	1 LL 50V DOG LEG 5x7 BODY		
52	70-0129	1	D-101 BRIDGE RECTIFIER (100V)		
53	70-3025	2	22 PIN SKINNY DIP SOCKET		
54	70-3020	4	8 PIN DIP SOCKET		
55	72-4030	7	LF353 DUAL JFET INPUT WIDE BANDWIDTH		
56	72-4031	2	LM358N DUAL PWR OP AMP		
57	72-4053	6	LM339 QUAD COMPARATOR		
58	80-4006-B	1	AL660/M712 MAIN PCB RAW		
59	28-1011	1	15 POSITION LED SPACER		
60	28-1012	6	1 POSITION LED SPACER		
61	38-0105	2	"AF" HARNESS 12 PIN 5 INCH		
62	70-2066	1	LED SMALL YELLOW DIFFUSED T1		
63	70-2061	20	LED SMALL RED DIFFUSED T1		
64	24-0201-A	1	TOROID CUSHION		
65	24-0035	1	TOROID RETAINER		
66	28-0076	1	10-32×1-1/4 PHIL PAN SCREW STEEL BLK		
67	26-0048	1	4 TAP TOROID TRANSFORMER		
68	32-2103	1	NO. 6 SOLDER LUG LOCKING TERMINAL		
69	28-0060	4	6-32x1/2 POZI FLAT TR3 BLK		
70	28-0059	8	6-32×1/4 POZI PAN TR3 BLK .250		
71	28-0291	3	4-40x1/4 PHIL PAN SCREW .250		
72	28-0065	1	6-32 KEPS HEX NUT		
73	28-0263	4	NO. 4x3/8 PLASTITE SCREW PHIL HEAD		
74	28-0058	4	6-32 x 3/8 POZI PAN TR3 BLK .375		
75	28-0055	1	6-32x1/4 SM00TH TRUSS HD SCREW BLK		
76	24-0206-A	1	PCB INSULATOR LEXAN (A/L)		
77	32-2082	4	.250" FASTON CONNECTOR		
78	28-0204	1	NO. 6 INTERNAL TOOTH LOCKWASHER BLK		
79	70-4124	1	7915 -15V REGULATOR TO-220 1500MA		
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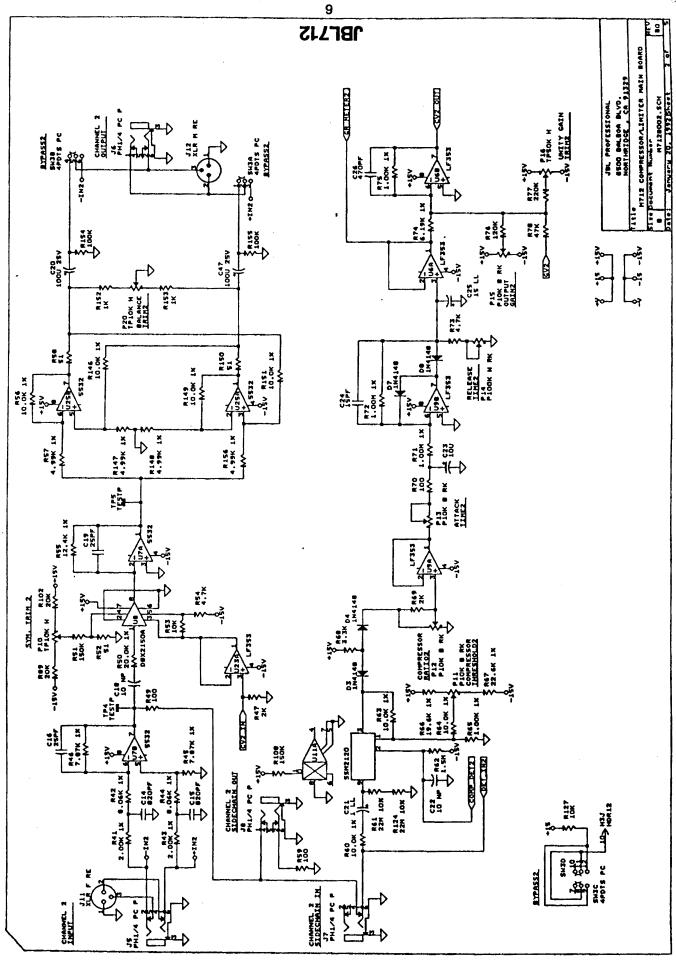
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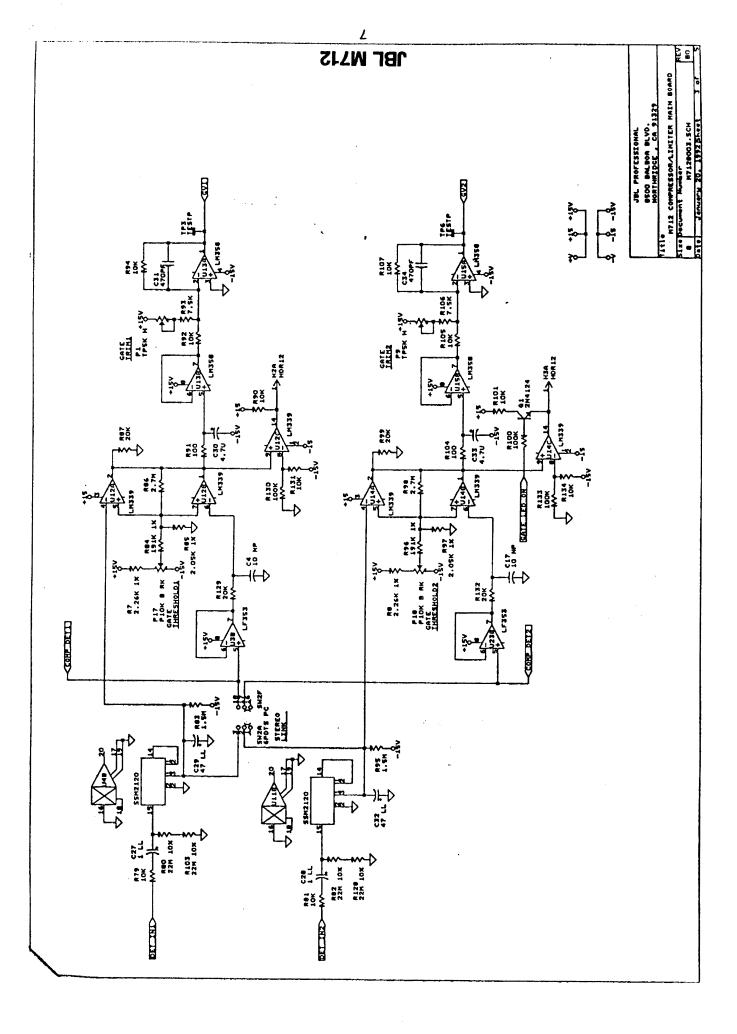


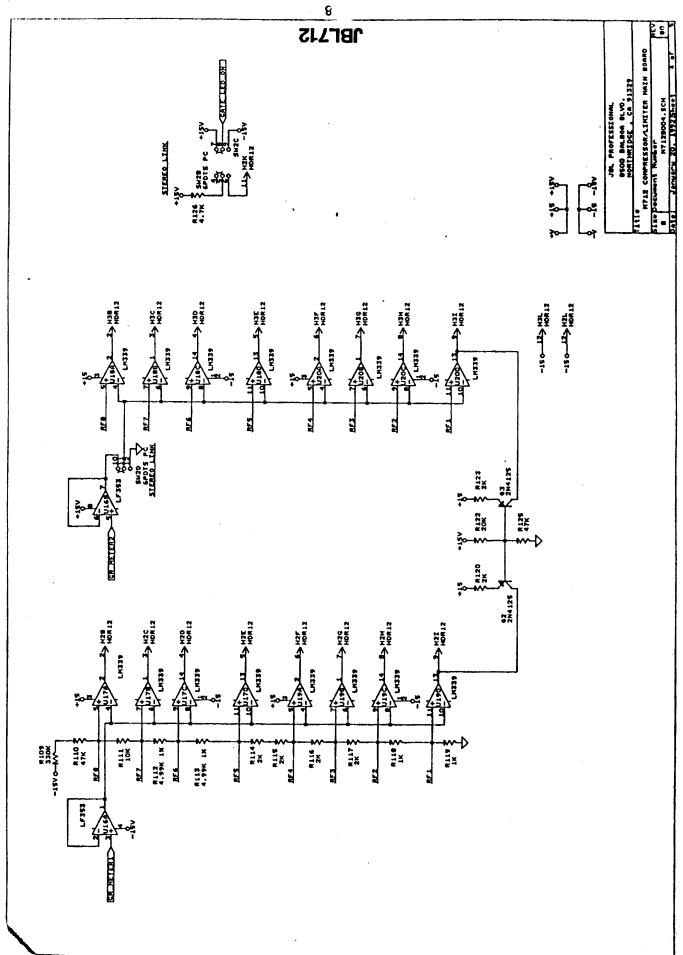
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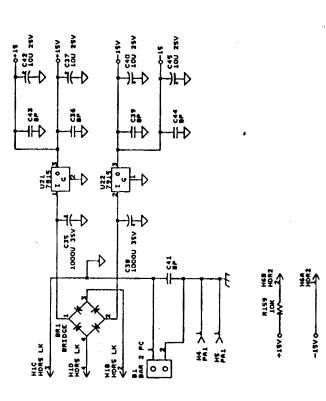












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-15 AND -15V INDICATE SIGNAL AND

-15 AND -15 INDICATE LED AND

COMPANATOR SUPPLIES

LAST AEF.

-16 -15V

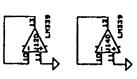
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-17 -17

BR1

-17 -1

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